

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-316686

(43)Date of publication of application : 16.11.2001

(51)Int.Cl.

C10M103/02
C10M103/04
C10M135/04
C10M135/06
C10M135/18
C10M135/20
C10M137/10
C23C 14/06
C23C 16/27
F01L 1/14
F01L 1/20
F16C 33/12
F16C 33/24
// C10N 10:04
C10N 10:06
C10N 10:08
C10N 10:10
C10N 10:12
C10N 10:14
C10N 10:16
C10N 30:06
C10N 40:02
C10N 40:04
C10N 40:25

(21)Application number : 2000-131750

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(22)Date of filing : 28.04.2000

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(54) SLIDING MEMBER WITH HARD CARBON FILM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a sliding

member with a hard carbon film excellent in low friction and low abrasion in a lubricating oil.

SOLUTION: This sliding member with a hard carbon film used in a lubricating oil is prepared by forming a hard carbon film 12 on a backing 11, wherein at least the surface layer of the film 12 contains 5-70 atm.% of at least one metal element selected from the group consisting of group IIb, III, IV, Va, VIa, VIIa and VIII elements in the periodic table.